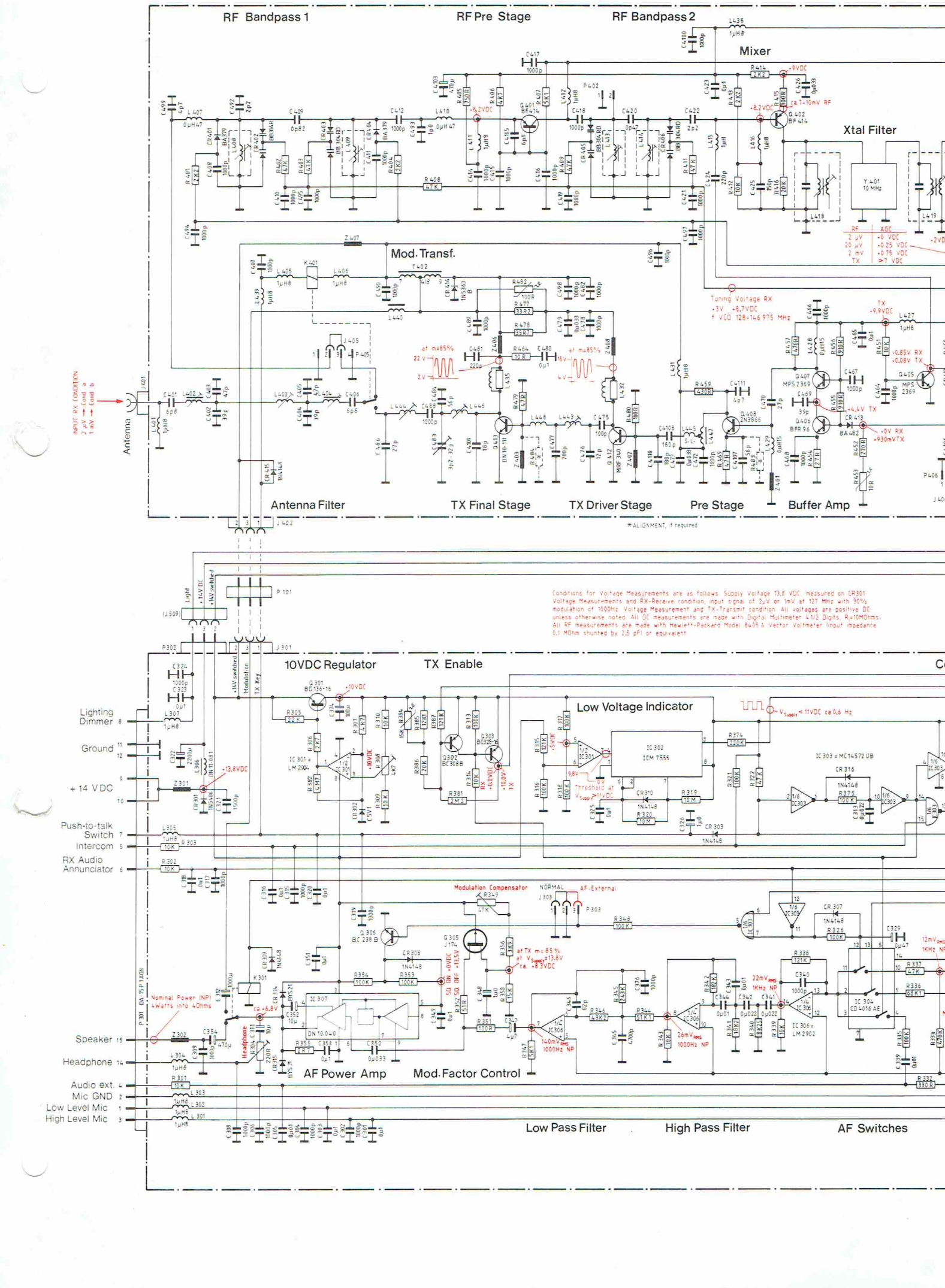
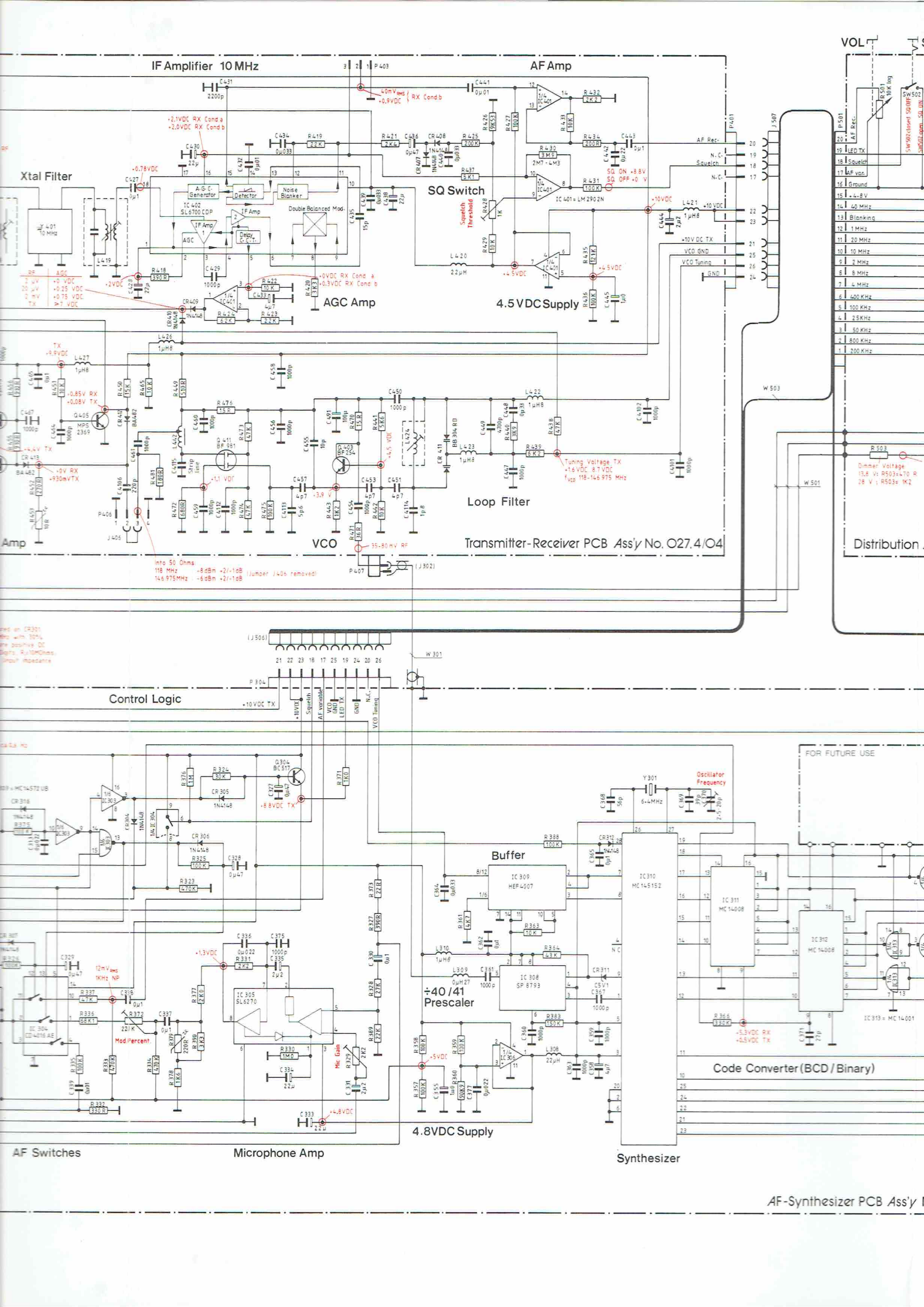
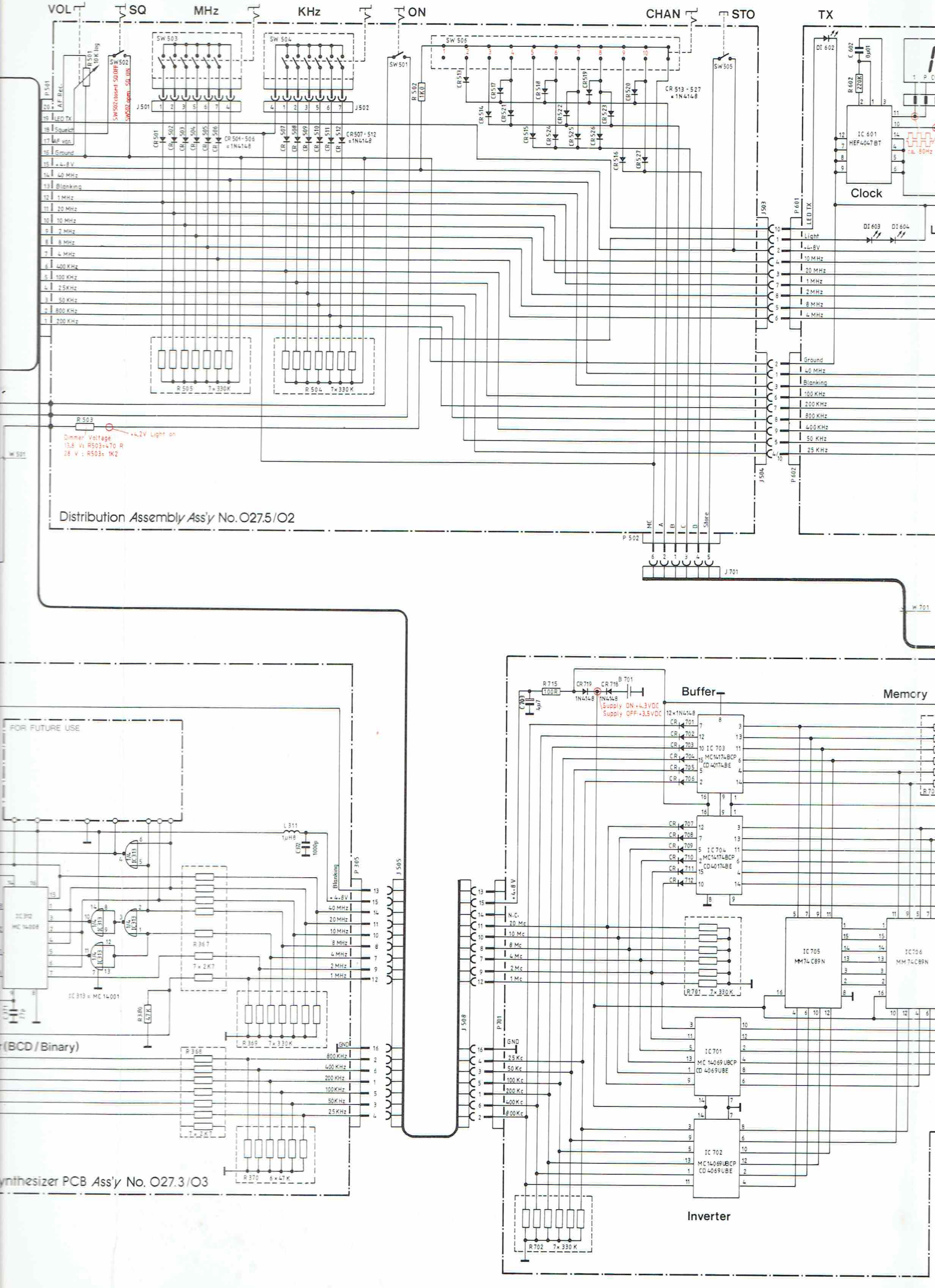
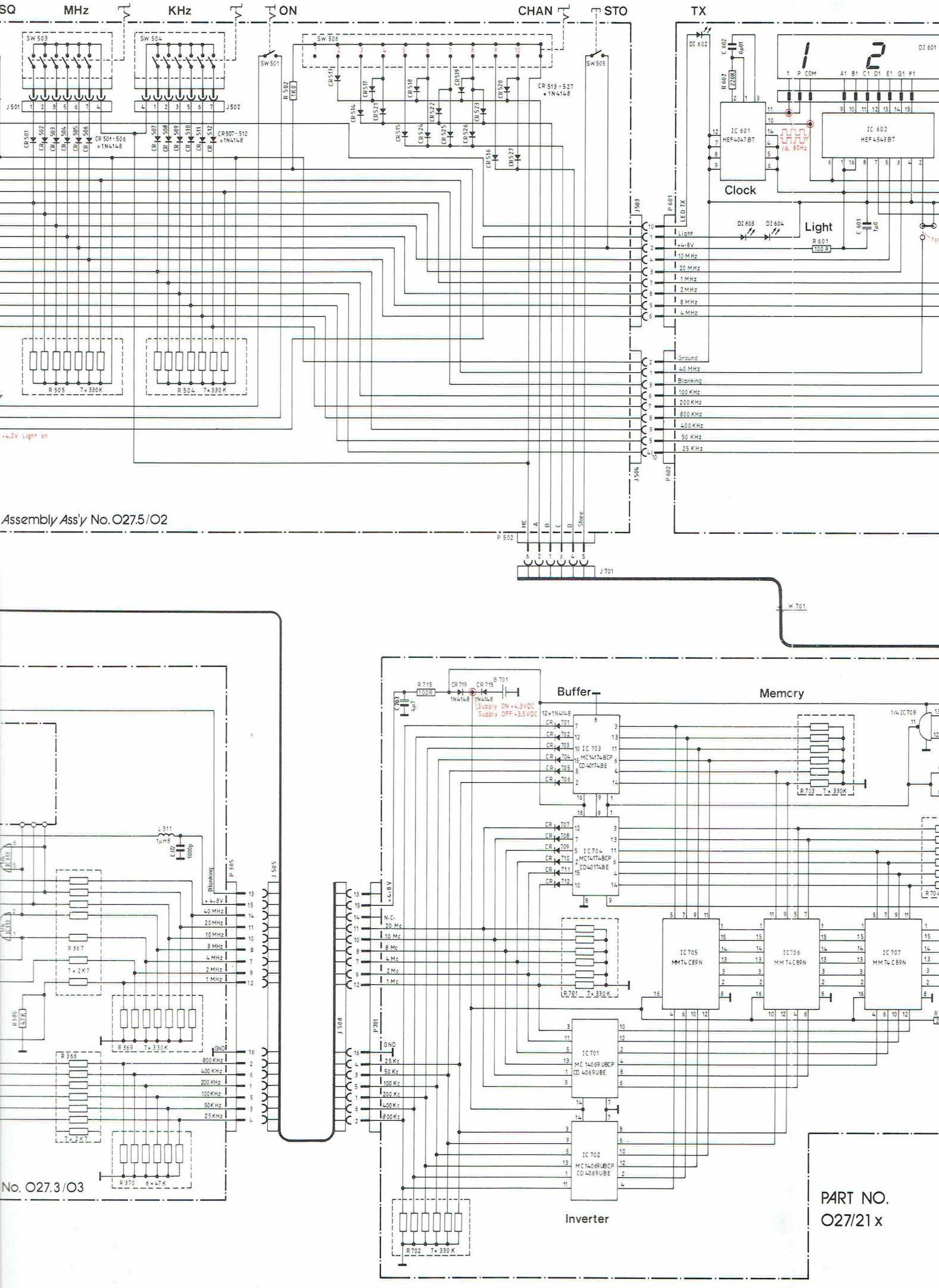
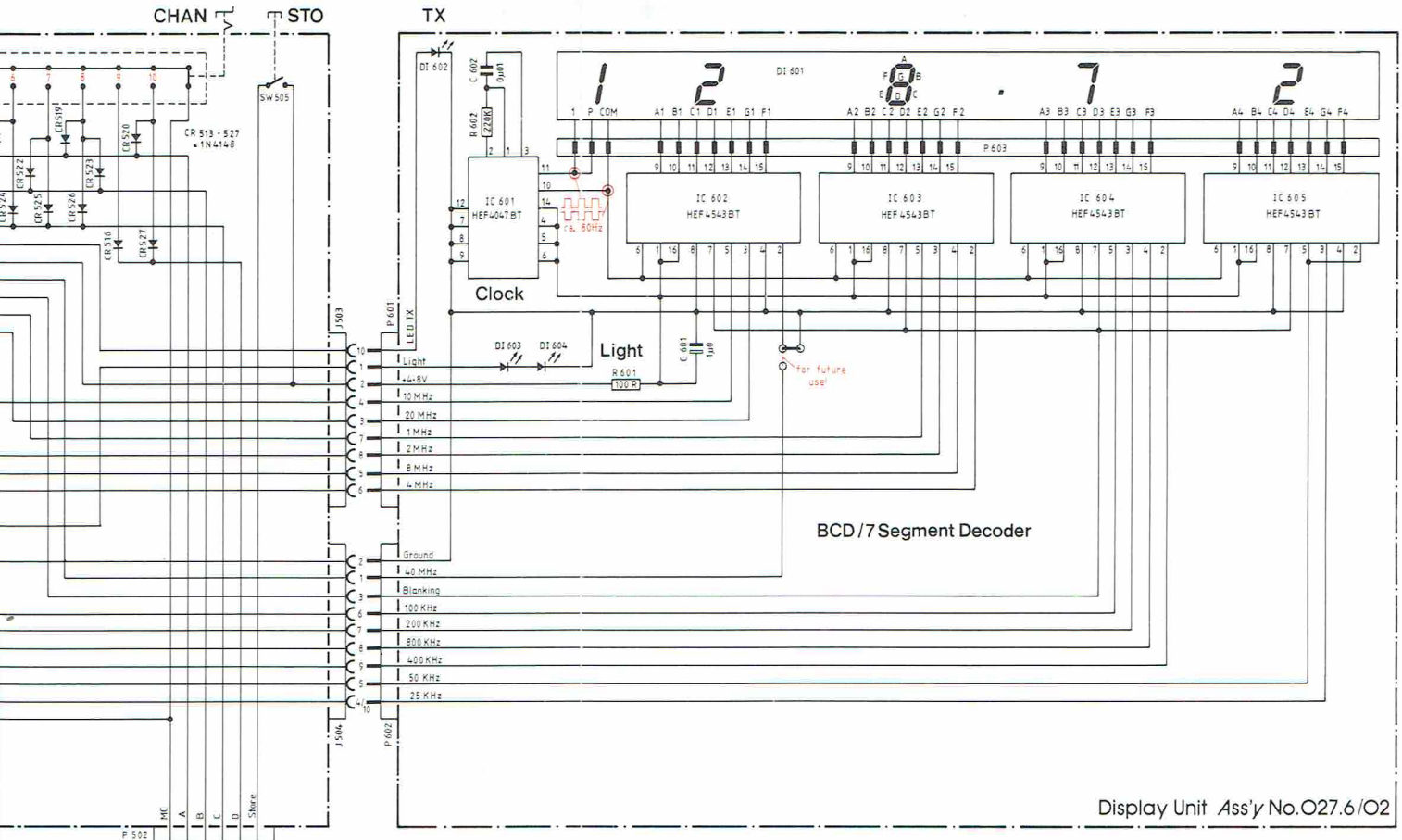
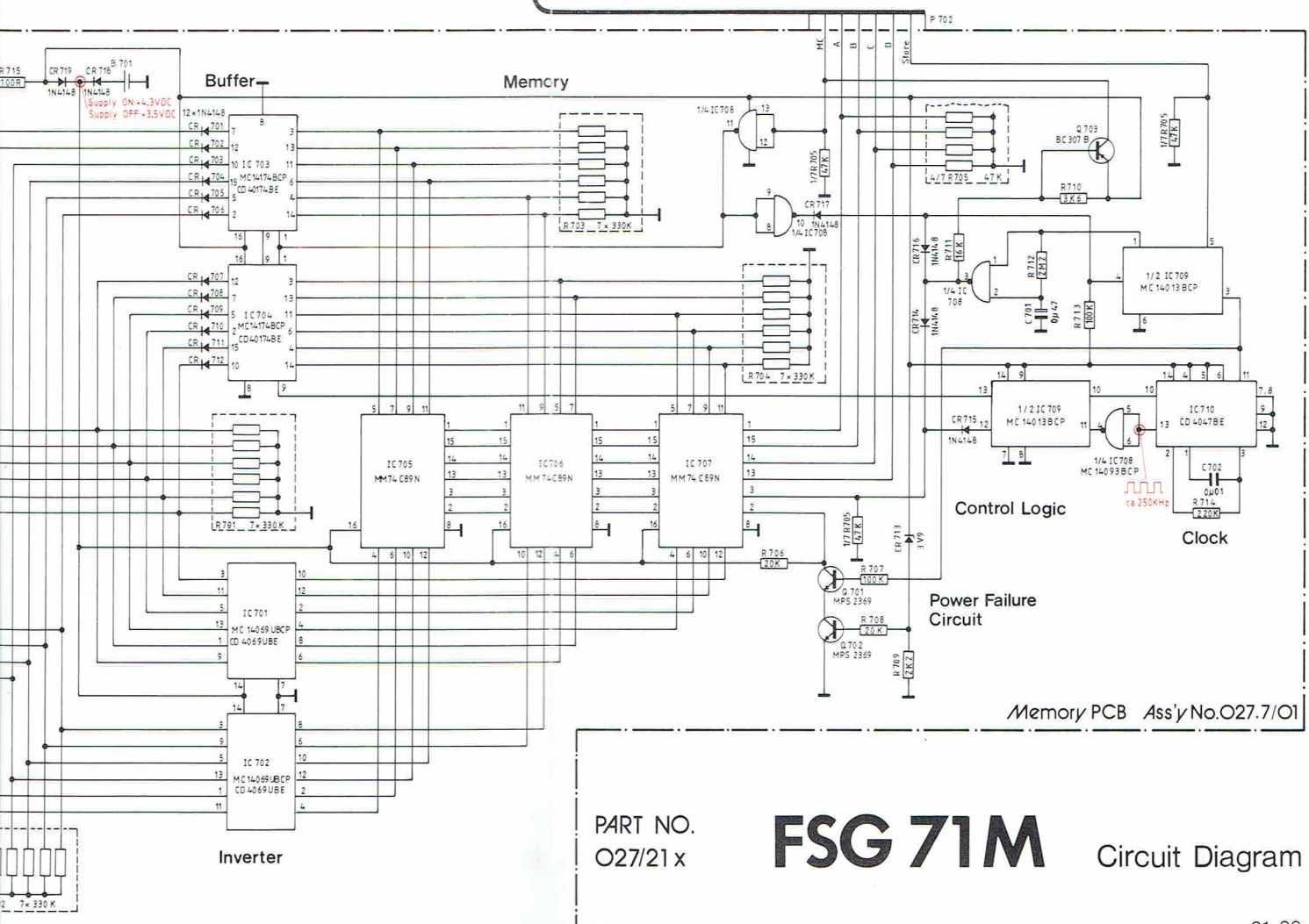

RF Bandpass 1
RF Pre Stage
RF Bandpass 2
Mixer
Xtal Filter
Mod. Transf.
Antenna
Antenna Filter
TX Final Stage
TX Driver Stage
Pre Stage
Buffer Amp
*ALIGNMENT, if required
10VDC Regulator
TX Enable
Low Voltage Indicator
Lighting Dimmer
Ground
+ 14 VDC
Push-to-talk
Switch
Intercom
RX Audio
Annunciator
Speaker
Headphone
Audio ext.
Mic GND
Low Level Mic
High Level Mic
AF Power Amp
Mod. Factor Control
Low Pass Filter
High Pass Filter
AF Switches


IF Amplifier 10 MHz
AF Amp
Xtal Filter
SQ Switch
AGC Amp
4.5 VDC Supply
Loop Filter
VCO
Transmitter-Receiver PCB Ass'y No. 027.4/04
Distribution
Control Logic
Buffer
÷40 /41
Prescaler
Code Converter (BCD / Binary)
FOR FUTURE USE
AF Switches
Microphone Amp
4.8VDC Supply
Synthesizer
AF-Synthesizer PCB Ass'y


VOL
SQ
MHz
KHz
ON
CHAN
STO
TX
Clock
Distribution Assembly Ass'y No. 027.5/02
FOR FUTURE USE
Buffer
Memory
Inverter
(BCD/Binary)
Synthesizer PCB Ass'y No. 027.3/03


SQ
MHz
KHz
ON
CHAN
STO
TX
SW 503
SW 504
SW 501
SW 506
SW 505
J 501
J 502
R 502 1K0
CR 501 - 506 = 1N4148
CR 507 - 512 = 1N4148
CR 513 - 527 = 1N4148
R 505 7 x 330 K
R 504 7 x 330 K
DI 602
C 602 0µ01
R 602 220K
DI 601
P COM
A1 B1 C1 D1 E1 F1
IC 601 HEF4047BT
IC 602 HEF4543BT
ca. 80Hz
Clock
J 503
P 601
LED TX
DI 603
DI 604
Light
C 601 1µ0
R 601 100 R
+4,8V
10 MHz
20 MHz
1 MHz
2 MHz
8 MHz
4 MHz
Ground
40 MHz
Blanking
100 KHz
200 KHz
800 KHz
400 KHz
50 KHz
25 KHz
J 504
P 602
+4,2V Light on
P 502
MC
A
B
C
D
Store
J 701
W 701
Assembly Ass'y No. 027.5/02
L 311 1µH8
C 72 1000p
P 505
J 505
R 367 7 x 2K7
R 369 7 x 330 K
R 368 7 x 2K7
R 370 6 x 47K
+4,8V
40 MHz
20 MHz
10 MHz
8 MHz
4 MHz
2 MHz
1 MHz
GND
800 KHz
400 KHz
200 KHz
100 KHz
50 KHz
25 KHz
No. 027.3/03
R 715 100 R
CR 719 1N4148
CR 718 1N4148
B 701
Supply ON +4,3VDC
Supply OFF +3,5VDC
C 707 4µ7
Buffer
Memory
12 x 1N4148
IC 703 MC14174BCP CD 40174BE
IC 704 MC14174BCP CD 40174BE
1/4 IC 708
R 703 7 x 330K
R 704
N.C.
20 Mc
10 Mc
8 Mc
4 Mc
2 Mc
1 Mc
R 701 7 x 330 K
IC 705 MM74C89N
IC 706 MM74C89N
IC 707 MM74C89N
J 508
P 701
GND
2,5 Kc
50 Kc
100 Kc
200 Kc
400 Kc
800 Kc
IC 701 MC 14069 UBCP CD 4069 UBE
IC 702 MC 14069 UBCP CD 4069 UBE
R 702 7 x 330 K
Inverter
PART NO.
027/21 x





PART NO.
027/21 x

FSG 71M

Circuit Diagram

01.90